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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/696,138	10/29/2003	Michael M. Walters	50202 (SE-2011-IP)	5503	
7590 07/27/2005			EXAMINER		
CHARLES E. WANDS, ESQ. ALLEN, DYER, DOPPELT, MILBRATH & GILCHRIST, P.A.			STERRETT, JEFFREY L		
255 SOUTH ORANGE AVENUE, SUITE 1401			ART UNIT	PAPER NUMBER	
P.O. BOX 3791			2838		
ORLANDO, F.	L 32802-3791		DATE MAILED: 07/27/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	gr			
Office Action Summary		10/696,138	WALTERS ET AL.	Ŭ			
		Examiner	Art Unit				
		Jeffrey L. Sterrett	2838				
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with the	correspondence addres	ss			
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period tre to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	I36(a). In no event, however, may a reply be ly within the statutory minimum of thirty (30) o will apply and will expire SIX (6) MONTHS fro e, cause the application to become ABANDO	timely filed days will be considered timely. om the mailing date of this commu NED (35 U.S.C. § 133).	unication.			
Status			•				
1) 🗌	Responsive to communication(s) filed on	·					
2a) <u></u> □	This action is <b>FINAL</b> . 2b)⊠ This	s action is non-final.					
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5) <u></u> 6)⊠	Claim(s) 1-13 is/are pending in the application 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) 1-13 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	wn from consideration.					
Applicat	ion Papers						
9) 🗌	The specification is objected to by the Examine	er.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
	Applicant may not request that any objection to the	drawing(s) be held in abeyance.	See 37 CFR 1.85(a).				
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the E	,	•	• •			
Priority (	under 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Burea See the attached detailed Office action for a list	ts have been received. Is have been received in Applicative documents have been rece u (PCT Rule 17.2(a)).	ation No ived in this National Sta	ge			
Attach	****						
2) Notice 3) Inform	e of References Cited (PTO-892)  of of Draftsperson's Patent Drawing Review (PTO-948)  mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  r No(s)/Mail Date	4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:		2)			

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1. Claims 9 and 10 are objected to because in line 3 of claim 9 "has" is superfluous. Appropriate correction is required.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 3. Claims 1-5 and 7-10 are rejected under 35 U.S.C. 102(a) as being anticipated by Kates (US 6,577,515).

Kates discloses a multiphase DC/DC converter (see lines 35-38 of column 2) comprising a plurality of DC/DC converter channels (125/225/325 and 150/250) having outputs combined at an output (50) providing DC power to a load (185) wherein different DC/DC power converter channels have different power conversion efficiencies and response times (see lines 41 and 45 of column 2) and the output inductance of a first DC/DC power converter channel is greater than the output inductance of a second DC/DC power converter channel (see lines 12-13 of the abstract).

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 6 and 11-13 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Kates .

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Kates discloses a multiphase DC/DC converter as explained above and as recited by claims 6 and 11-13 except for utilizing plural second converters. Official notice is taken that a multiphase DC/DC converter utilizing plural converters was old and known in the art at the time of the invention (see lines 35-38 of column 2 of Kates for example). It would have been obvious to one of ordinary skill in the art at the time of the invention to have modified the multiphase DC/DC converter of Kates by utilizing plural second converters since Kates already explicitly set forth that converter 125/225/325 may be one of many converters and by logical extension converter 150/250 could just as easily be one of many converters as per the statement in lines 33-37 of column 6 of Kates in order to provide more power to the load without stressing a single converter as was often done in the art at the time of the invention.

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Amin (US 6,636,023) is cited to show a multiphase DC/DC converter old and known in the art at the time of the invention that could be consider to read upon claims 1-3, 7, and 8 under 35 U.S.C. 102(a).

Smith (US 5,309,344), Keller (US 6,134,129), Kadatsky (US 6,381,155), Siri (US 6,433,522), Clarkin et al (US 6,465,993), Ledenev et al (US 6,545,450), Brooks (US 6,605,931), Markowski et al (US 6,696,882), Schrom et al (US 6,801,026), and Schuellein et al (US 6,806,689) are cited to show multiphase DC/DC converters old and known in the art at the time of the invention.

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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey L. Sterrett whose telephone number is (571) 272-2085. The examiner can normally be reached on Monday-Thursday & 8:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Sherry can be reached on (571) 272-2084. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jeffrey L. Sterrett Primary Examiner Art Unit 2838

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